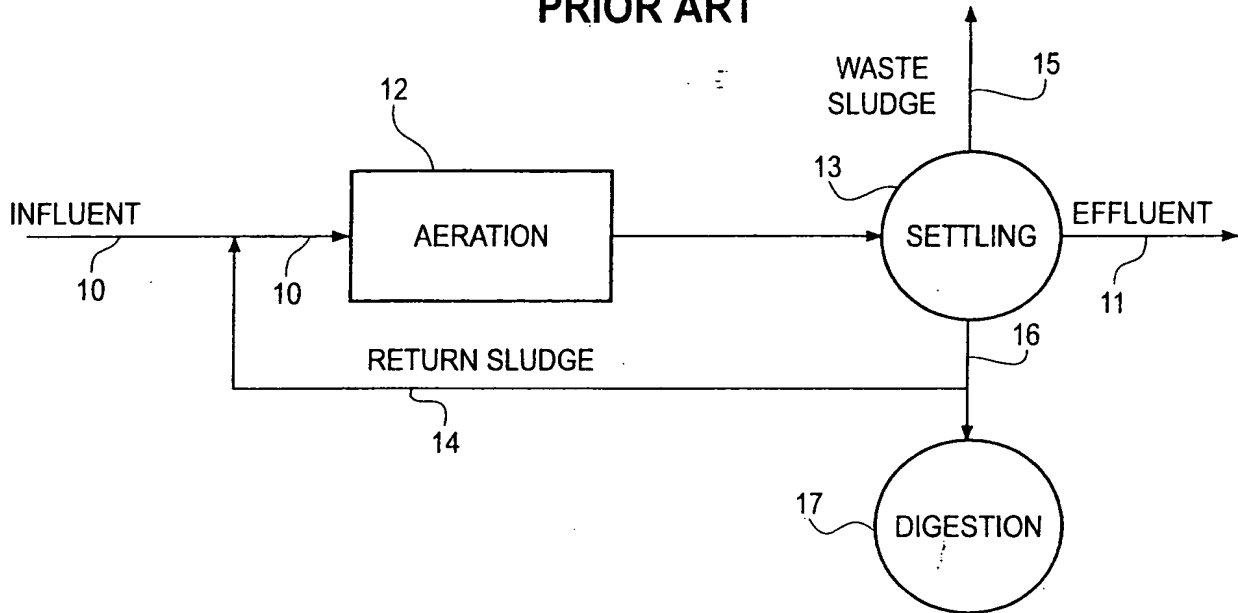


**FIG. 1**  
**PRIOR ART**



**FIG. 2**  
**PRIOR ART**

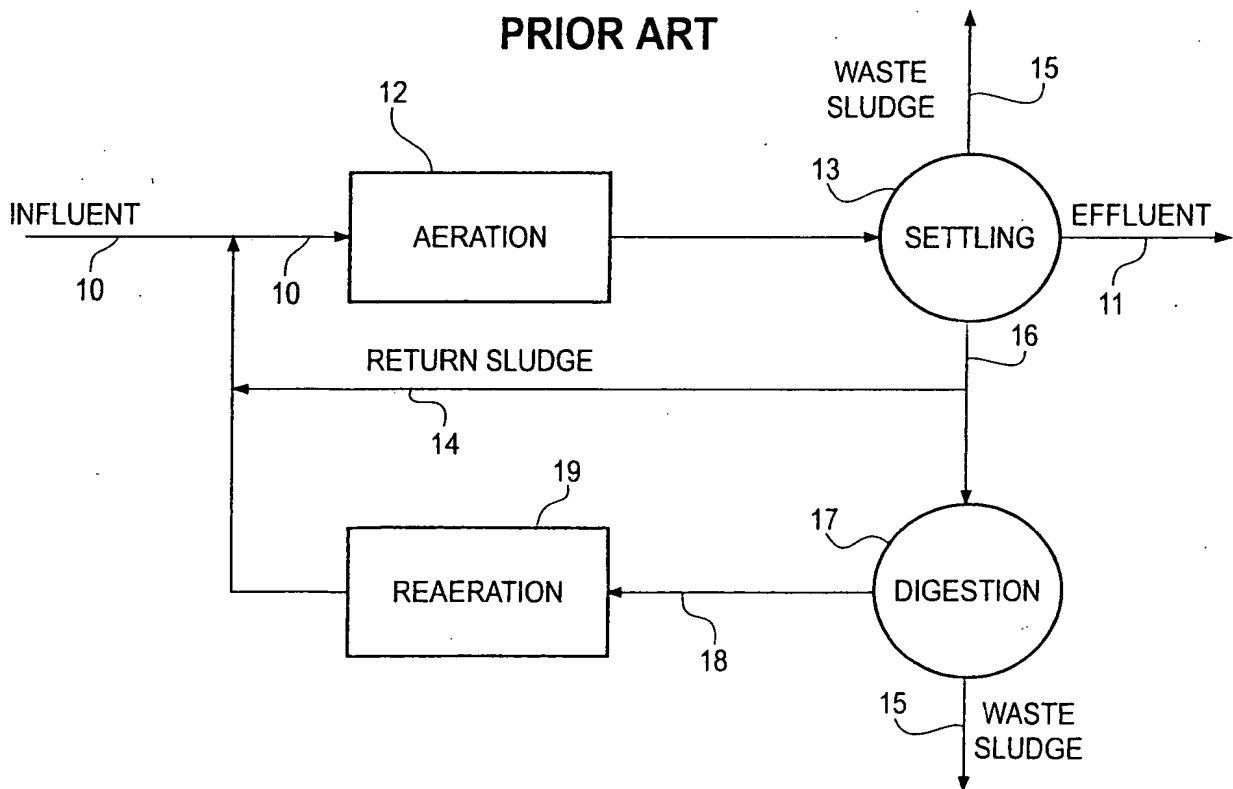


FIG. 3

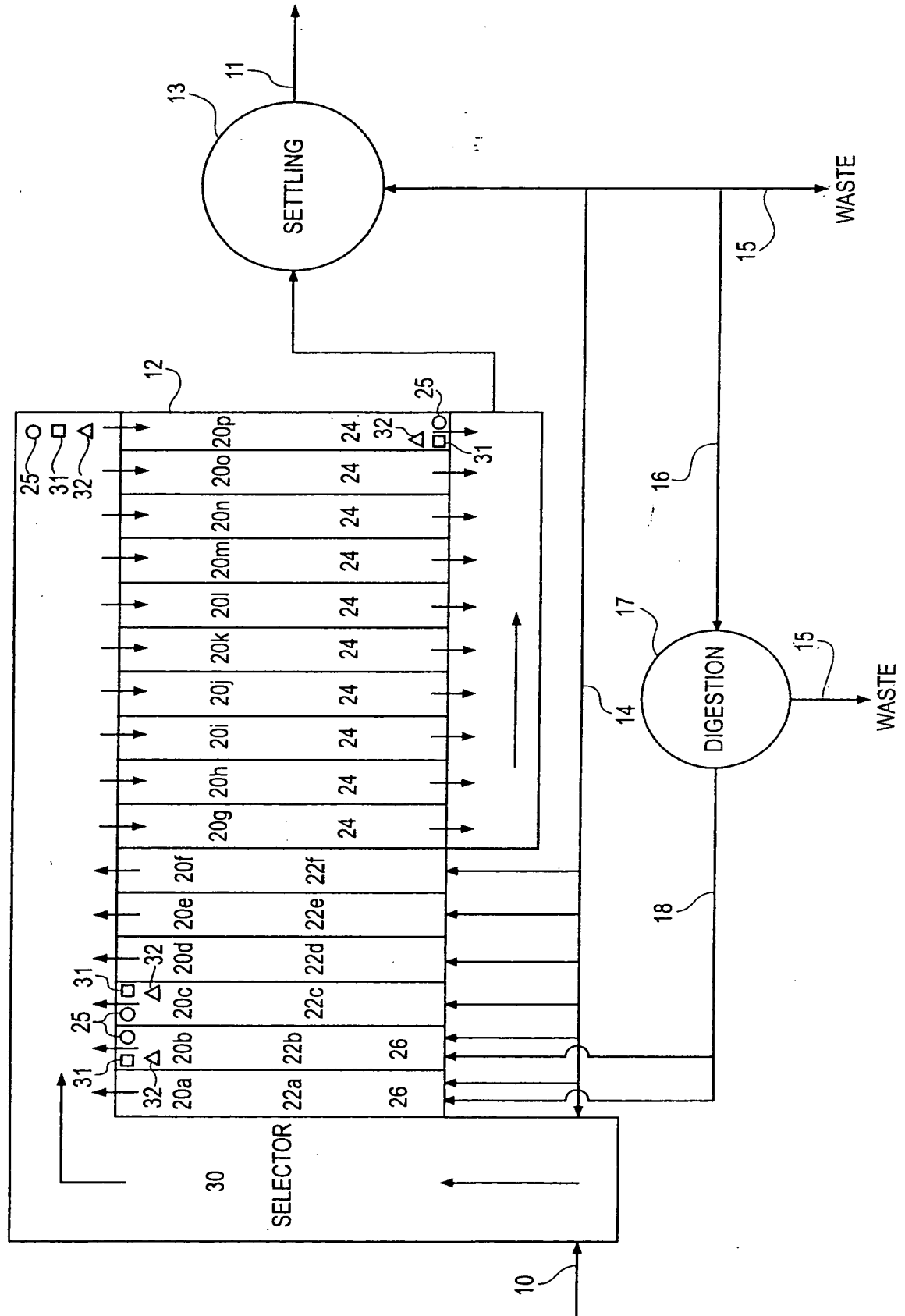


FIG. 4

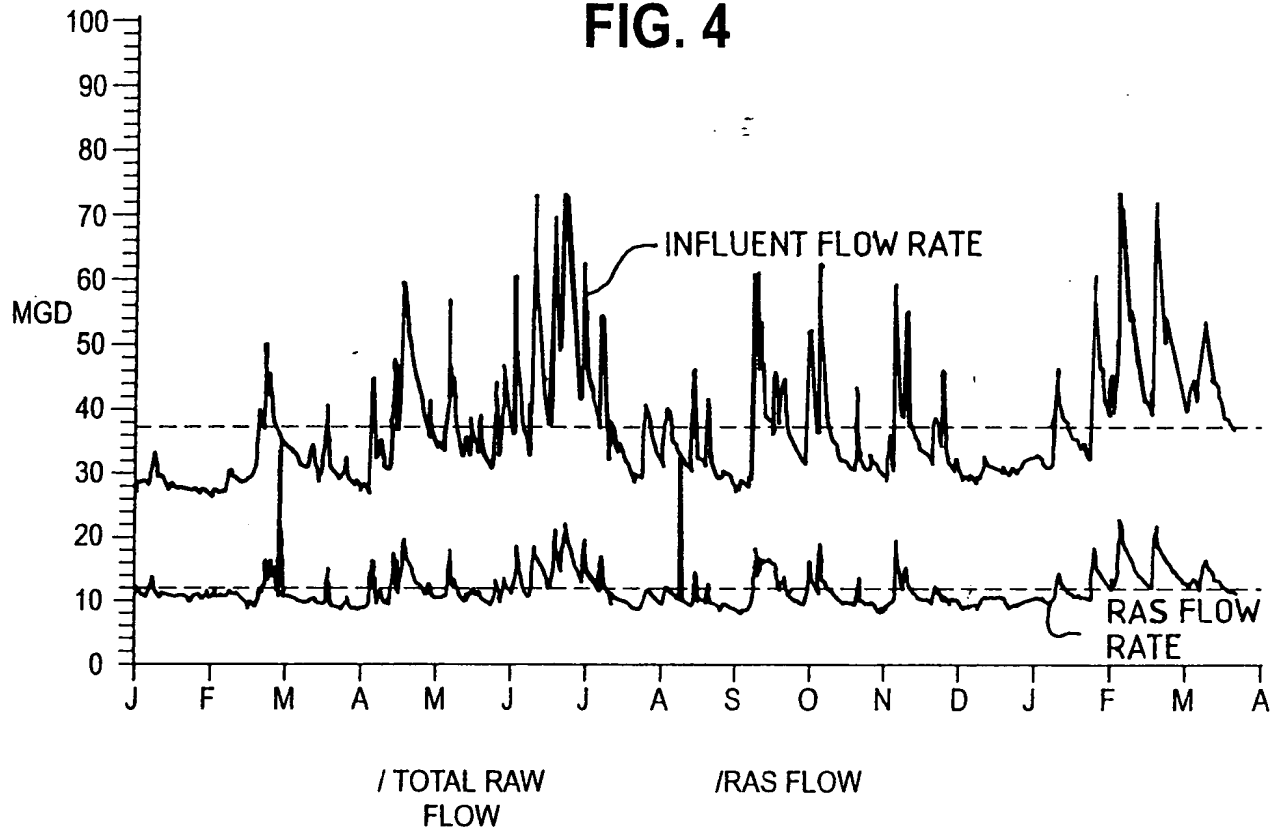


FIG. 5

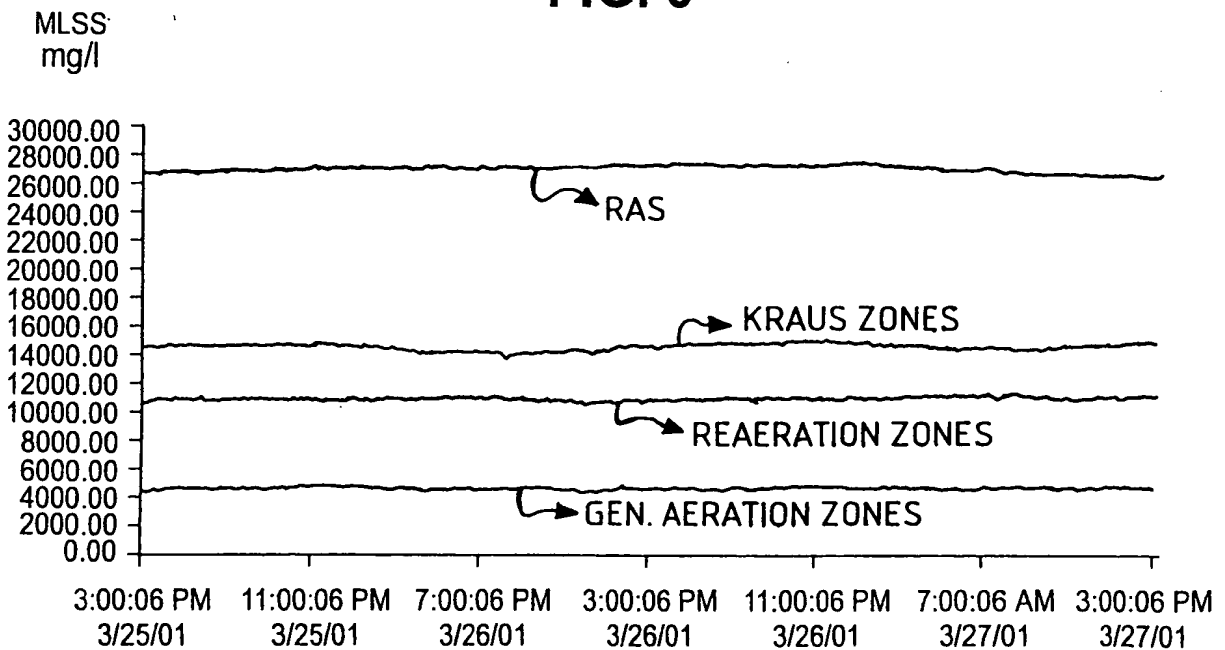
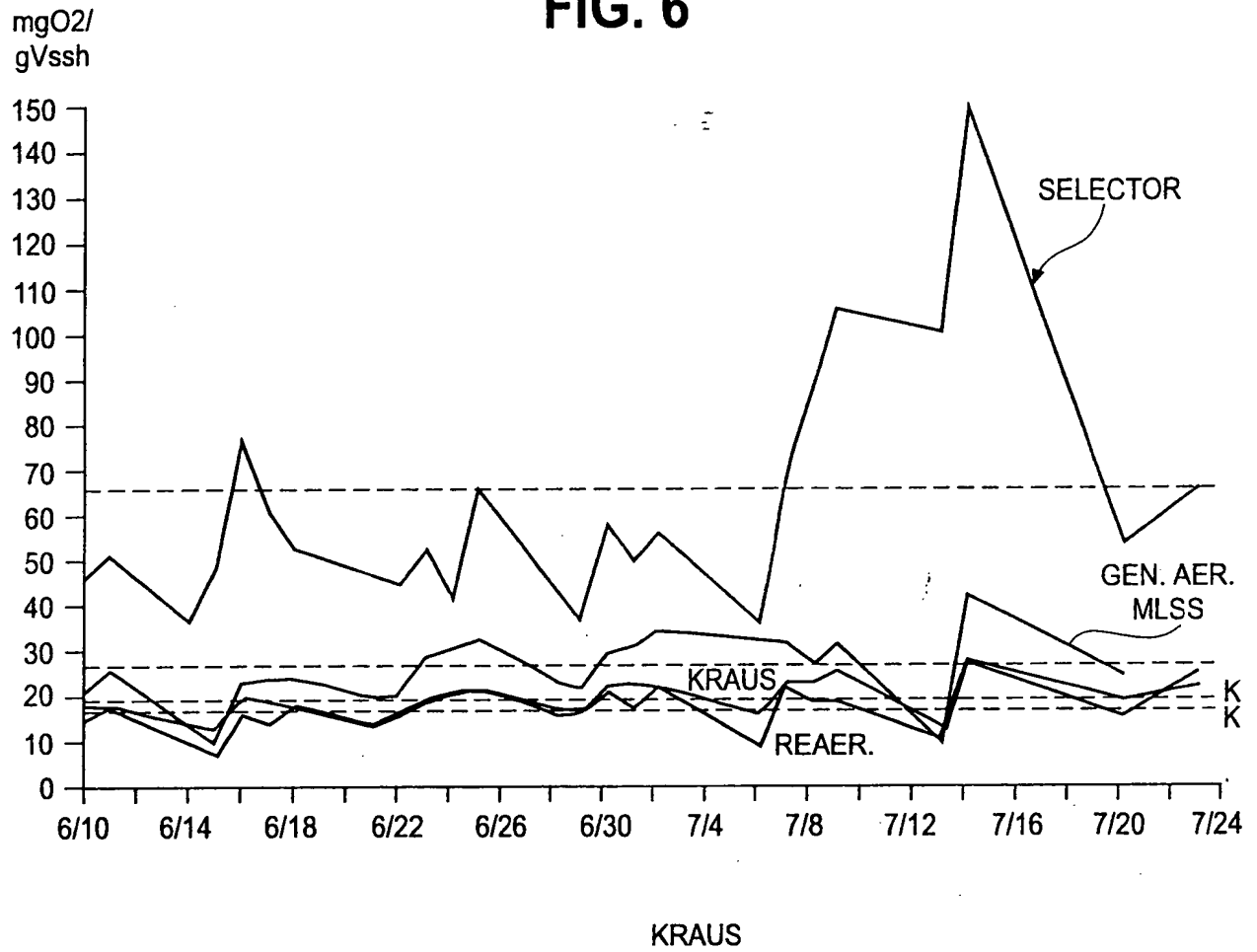
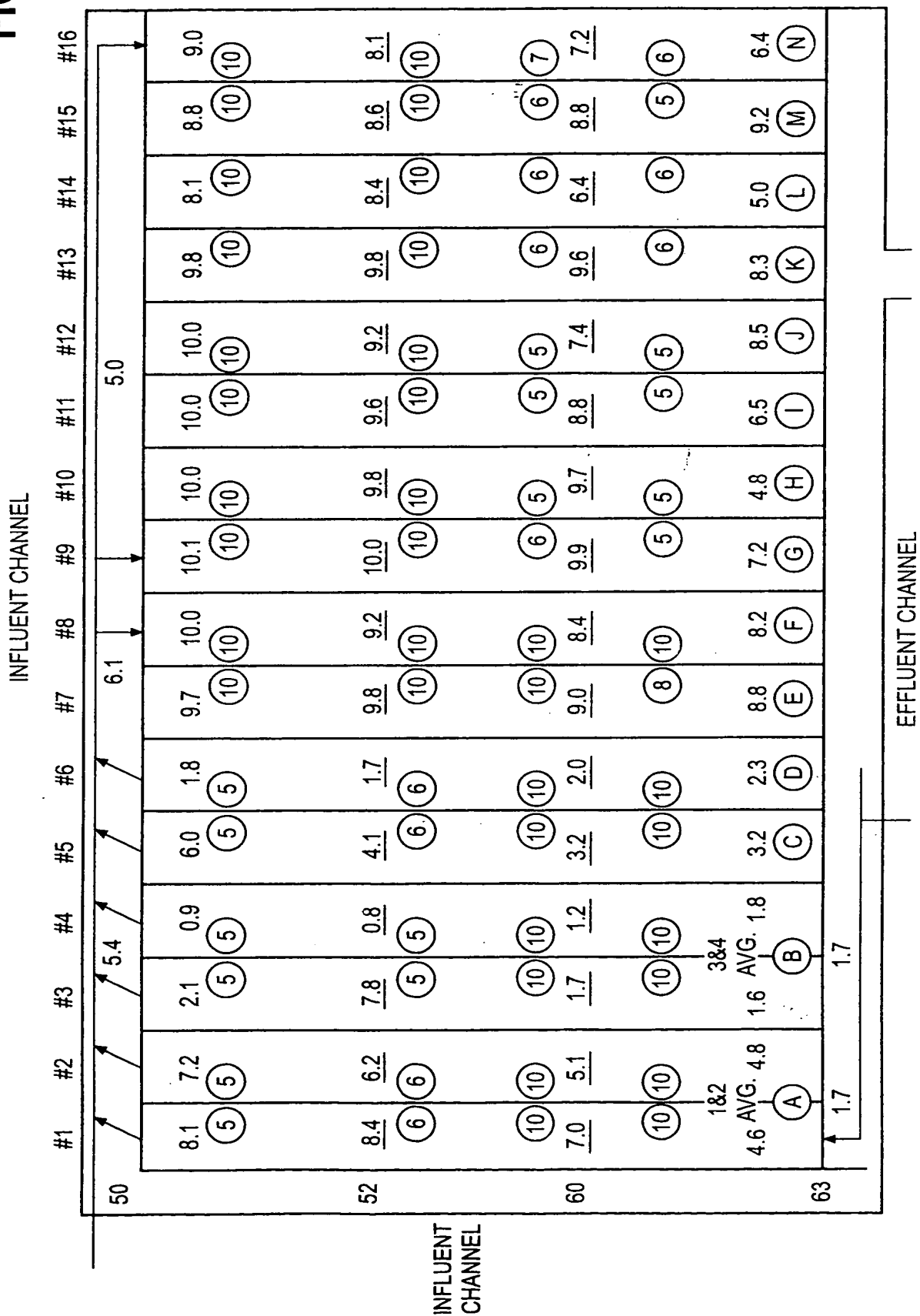


FIG. 6



# FIG. 7

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**FIG. 8**

	CONVENTIONAL SINGLE STAGE NITRIFICATION	INVENTION
HYDRAULIC LOADING	48 MGD	72 MGD
MASS LOADING	250,000 lbs. COD/d	450,000 lbs. COD/d
NUTRIENT REMOVAL, N	70%	90-95%
NUTRIENT REMOVAL, P	85%	85%
SVI	80-120	40-60